

Web material

Table S1 Patient characteristics at presentation and follow-up for 83 recruited patients (unless otherwise stated).

Parameter	Levels	Values
Age (years)	Median [Min:Max]	70·8 [28·2:89·5]
Sex	Male	50 (60·2%)
	Female	33 (39·8%)
Smoking status	Never smoked	32 (38·6%)
	Ex-Smoker	28 (33·7%)
	Current Smoker	23 (27·7%)
Previous Stroke	Yes	18 (21·7%)
	(Unknown 3, 3·6%) No	62 (74·7%)
Hypertension	Yes	54 (65·1%)
	No	29 (34·9%)
Diabetes	Yes	9 (10·8%)
	(Unknown 1, 1·2%) No	73 (88·0%)
Atrial fibrillation	Yes	23 (27·7%)
	No	60 (72·3%)
Ischaemic heart disease (angina or MI)	Yes	28 (33·7%)
	(Unknown 2, 2·4%) No	53 (63·9%)
Stroke subtype (OCSP)	TACS	20 (24·1%)
	PACS	42 (50·6%)
	POCS	6 (7·2%)
	LACS	15 (18·1%)
NIHSS baseline	Median [Min:Max]	7 [1:30]
NIHSS subacute	Median [Min:Max]	6 [0:28]
NIHSS Day 7	Median [Min:Max]	5·5 [0:26]
NIHSS 1 month	Median [Min:Max]	2 [0:24]
mRS at 1 month (alive)	mRS 0-2	35 (45·5%)
	mRS 3-6	42 (54·5%)
	Dead	8 (9·6%)
mRS at 3 months	mRS 0-2	42 (50·6%)
	mRS 3-6	41 (49·4%)

Parameter	Levels	Values
	Dead	9 (10·8%)

MI=myocardial infarction; OCSP=Oxfordshire Community Stroke Project classification of stroke subtype; NIHSS=National Institutes of Neurological Disorders and Stroke Scale for stroke severity; mRS=modified Rankin Scale

Table S2 Summary of imaging findings

	Baseline	72 hours	30 days
Total patients, n	83	72	48
Structural imaging			
CT, n (%)	63 (76%)	12 (17%)	4 (8%)
MR, n (%)	20 (24%)	60 (76%)	44 (92%)
Median time (range), hours	2.75 (1.25; 5.58)		
Visible ischaemic lesion, n (%)	63 (76%)	61 (85%)	
Vascular territory: MCA, n (%)	44 (70%)		
Lacunar, n (%)	6 (9%)		
Posterior, n (%)	13 (21%)		
Severe cerebral atrophy, n (%)	9 (11%)		
Severe WML, n (%)	11 (13%)		
Prior infarct, n (%)	24 (29%)		
Perfusion imaging			
Number with complete and analysable imaging (%)	79 (95%)	54 (75%)	45 (94%)
Tmax perfusion defect, n (%)	48 (61%)	20 (37%)	9 (20%)
Angiography			
Number with complete and analysable imaging (%)	73 (88%)	53 (74%)	*
Any arterial occlusion (composite measure), n (%)	40 (48%)	16 (22%)	4 (8%)

CT=computed tomography; MR=magnetic resonance; MCA=middle cerebral artery;

WML=white matter lesions; Tmax=time to peak of the residue function

Table S3 Online only. Associations between baseline lesion extent (ASPECTS score) and arterial occlusion

ASPECTS score for:	Arterial patency (composite)			
	No occlusion (n=41)	Occlusion (n=42)	Overall (n=83)	P-value
Structural CT or MR lesion extent	10 [9, 10]	7 [4, 8]	9 [7, 10]	<0·0001
CBF perfusion lesion extent	10 [10, 10]	6 [3, 9]	10[6, 10]	<0·0001
CBV perfusion lesion extent	10 [10, 10]	8 [4,10]	10[8, 10]	<0·0001
Tmax perfusion lesion extent	10 [9, 10]	4 [1, 8]	9[4,10]	<0·0001

Data shown are median [interquartile range] ASPECTS scores; p-values are from Wilcoxon-Mann-Whitney test.

ASPECTS=Alberta Stroke Program Early CT Score; CT=computed tomography; MR=magnetic resonance; CBF=cerebral blood flow; CBV=cerebral blood volume; Tmax=time to peak of the residue function.